



CONSTRUCTION EQUIPMENT

VOLVO L180H 5717 - DIESEL ENGINE



Sample No: VCP436872
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436872	VCP416380	VCP420011	VCP424760
Sample Date	24 Feb 2024	13 Nov 2023	22 Sep 2023	02 Aug 2023
Machine Hours	2234	1568	1225	880
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.6	12.3	12.2
Base Number (BN)	mg KOH/g	9.5	10.4	10.3	8.9
Oxidation (PA)	%	65	78	77	75

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	45	47	48	58
Sulfation (PA)	%	54	60	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	8
Sodium	ppm	1	0	2	2
Potassium	ppm	2	2	0	<1



WEAR METALS

Iron	ppm	5	3	2	4
Copper	ppm	1	2	6	52
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	2	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	48	50	61	67
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1224	1554	1643	1730
Magnesium	ppm	605	469	524	453
Zinc	ppm	1053	1044	1098	1093
Phosphorus	ppm	874	883	909	902
Barium	ppm	1	0	0	0
Boron	ppm	31	63	59	46

Depot: VOLVO0090
Unique No: 10899671
Signed: Wes Davis
Report Date: 28 Feb 2024



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GRAPHS

